

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120418\
 Data File : VN052655.D
 Acq On : 4 Dec 2018 15:34
 Operator : MD\SY
 Sample : PB115293ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#01

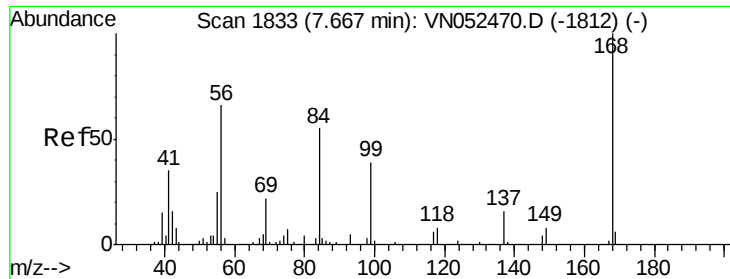
Quant Time: Dec 05 03:08:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1199529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1857876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1648725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	637407	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	637055	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
35) Dibromofluoromethane	7.59	113	570655	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
50) Toluene-d8	10.09	98	2266477	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	12.40	95	722426	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	17800	5.167	ug/l	91
18) Methyl Acetate	4.34	43	4442	0.450	ug/l #	88
20) Methylene Chloride	4.55	84	86179	6.393	ug/l	98
29) Tetrahydrofuran	7.23	42	1658	0.526	ug/l #	64
31) Cyclohexane	7.67	56	21273	0.585	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82267	4.689	ug/l #	50
38) Carbon Tetrachloride	7.67	117	104711	6.593	ug/l #	16
43) Isopropyl Acetate	8.17	43	52740	2.911	ug/l #	82
45) 1,2-Dichloropropane	9.26	63	3385	0.244	ug/l #	43
48) Methyl methacrylate	9.18	41	14489	1.534	ug/l #	13
49) 1,4-Dioxane	9.27	88	191	1.948	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	15824	1.556	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	122219	6.336	ug/l #	63
56) Ethyl methacrylate	10.54	69	1520	2.788	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	26032	1.349	ug/l #	43
59) 2-Hexanone	10.77	43	354112	51.898	ug/l #	50
71) Bromoform	12.40	173	4381	0.560	ug/l #	1
74) N-amyl acetate	11.88	43	38951	3.083	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	346334	35.235	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	346334	117.669	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	977	2.911	ug/l	85
95) Naphthalene	15.14	128	2773	3.536	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.32	180	957	2.814	ug/l	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

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MSVOA_N

ClientSampleId :

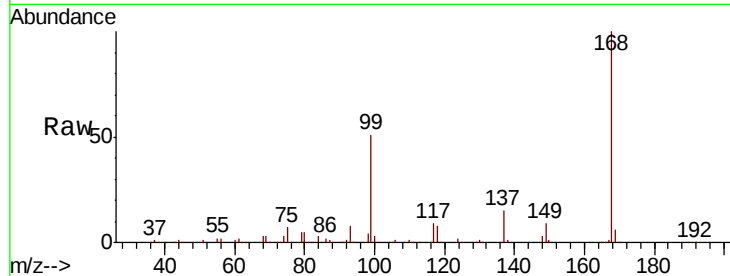
PB115293ZHE#01

Tot Ion:168 Resp: 1199529

Ion Ratio Lower Upper

168 100

99 50.9 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052470.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052470.D (-1812) (-)

7.67

500000

400000

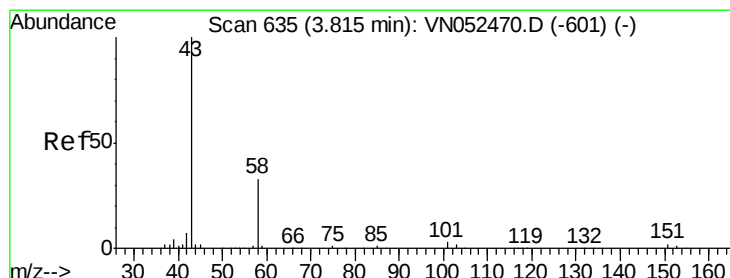
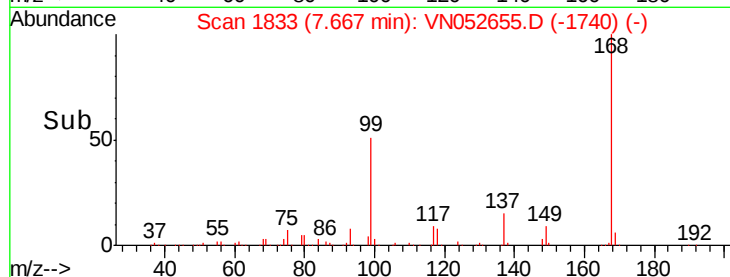
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 5.167 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052655.D

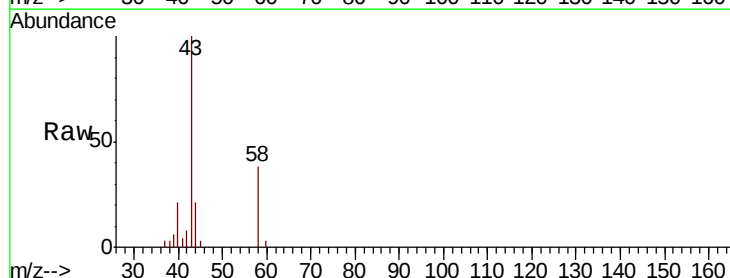
Acq: 4 Dec 2018 15:34

Tgt Ion: 43 Resp: 17800

Ion Ratio Lower Upper

43 100

58 37.7 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-601) (-)

3.82

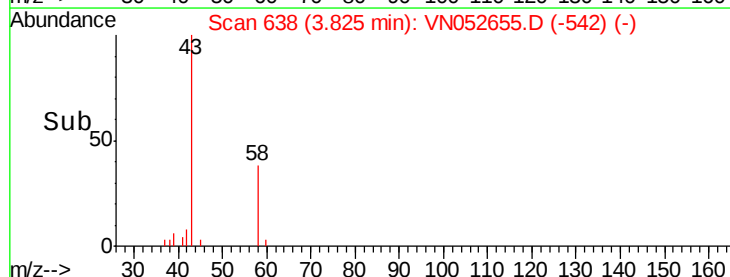
6000

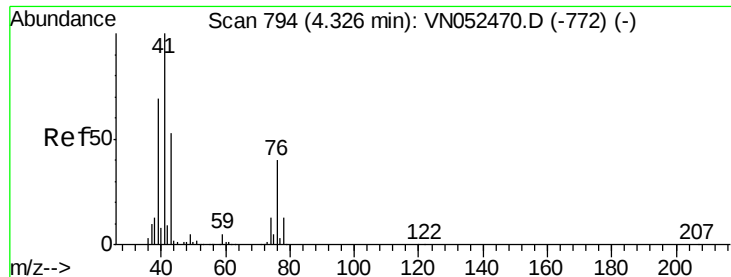
4000

2000

0

Time-->

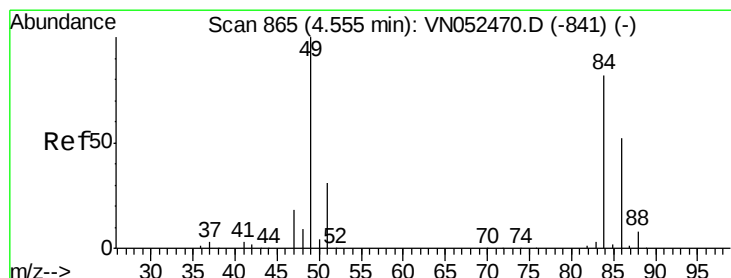
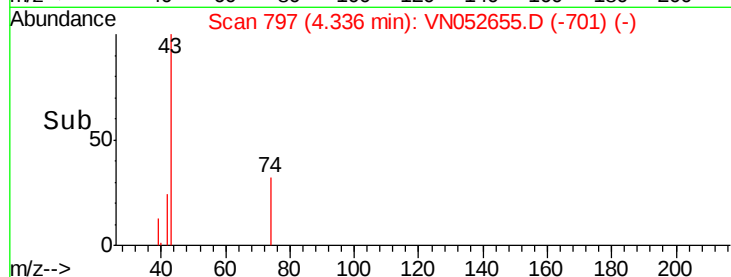
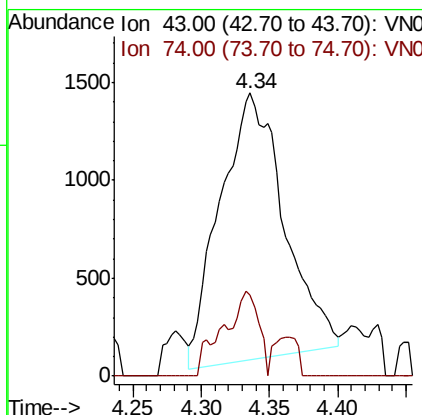
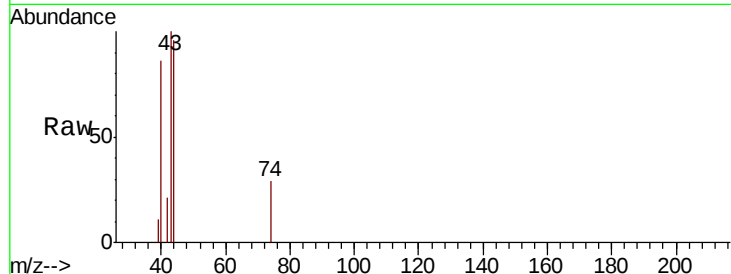




#18
Methyl Acetate
Concen: 0.450 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

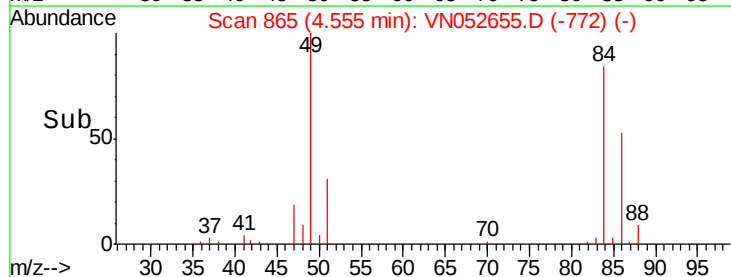
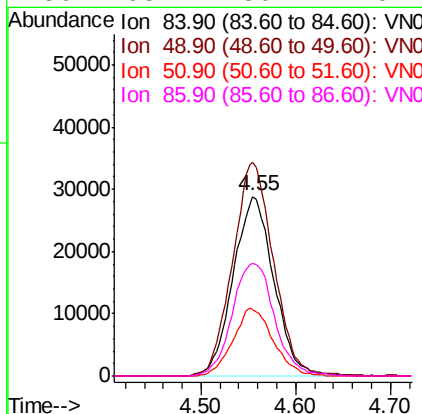
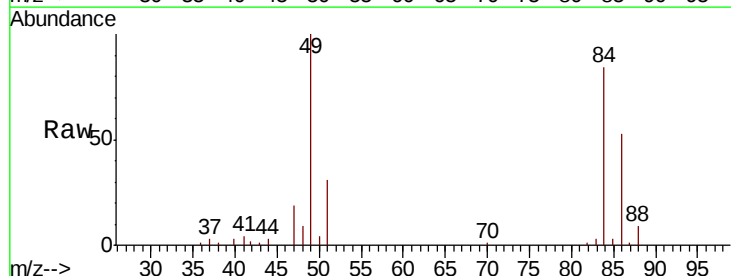
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#01

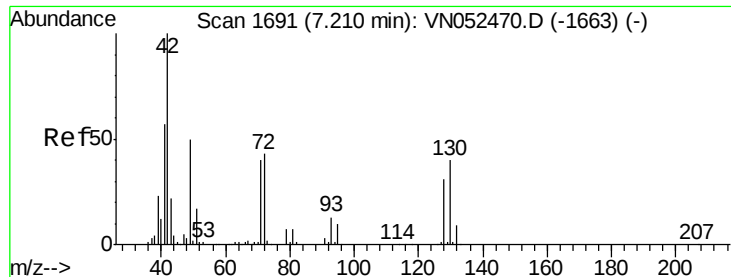
Tot Ion: 43 Resp: 4442
Ion Ratio Lower Upper
43 100
74 17.4 18.6 27.8#



#20
Methylene Chloride
Concen: 6.393 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

Tgt Ion: 84 Resp: 86179
Ion Ratio Lower Upper
84 100
49 119.1 98.0 147.0
51 37.0 30.1 45.1
86 63.1 50.7 76.1

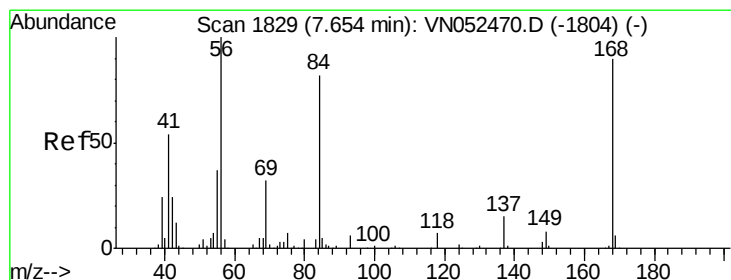
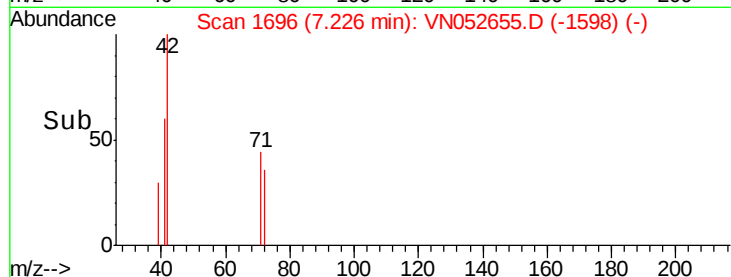
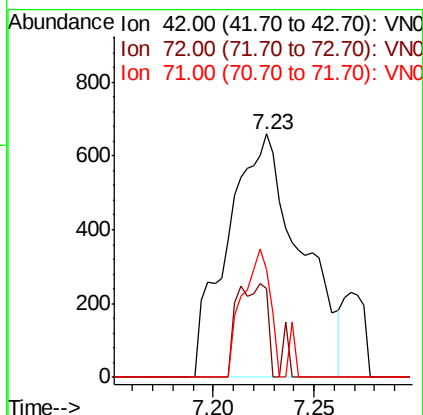
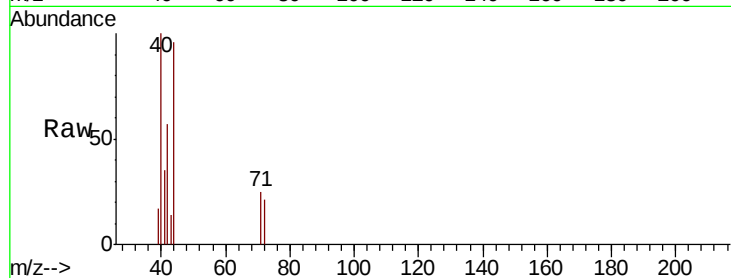




#29
Tetrahydrofuran
Concen: 0.526 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

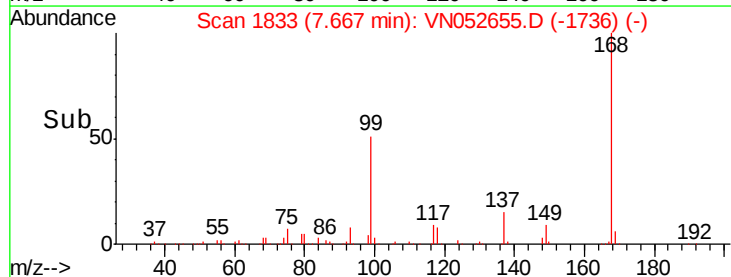
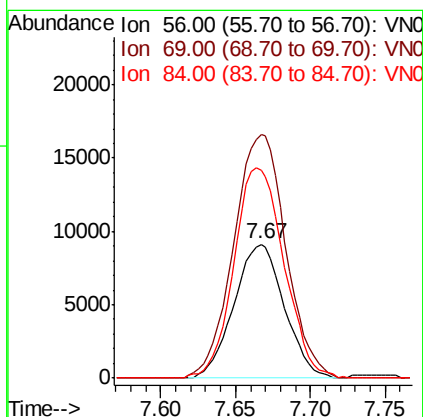
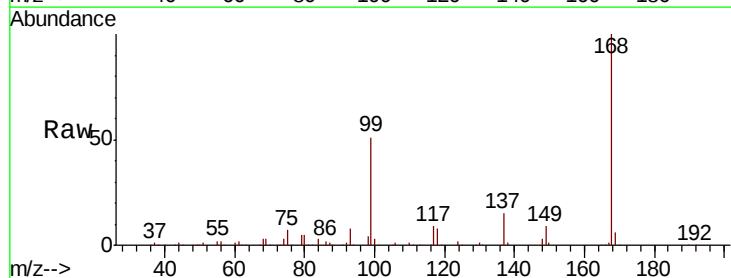
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#01

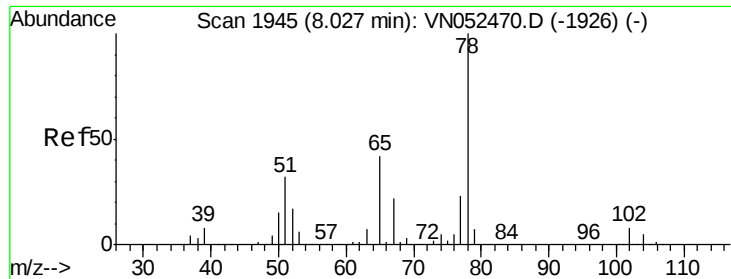
Tot Ion: 42 Resp: 1658
Ion Ratio Lower Upper
42 100
72 16.2 33.3 49.9#
71 20.1 32.0 48.0#



#31
Cyclohexane
Concen: 0.585 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

Tgt Ion: 56 Resp: 21273
Ion Ratio Lower Upper
56 100
69 181.6 25.8 38.6#
84 154.8 65.3 97.9#

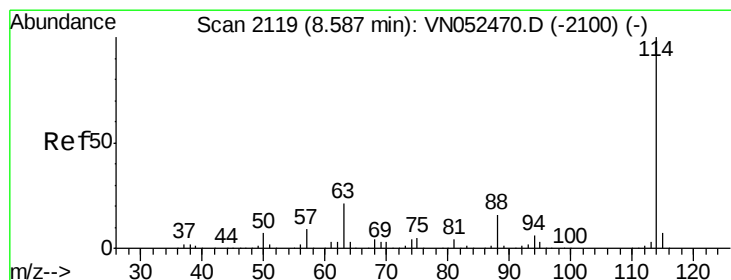
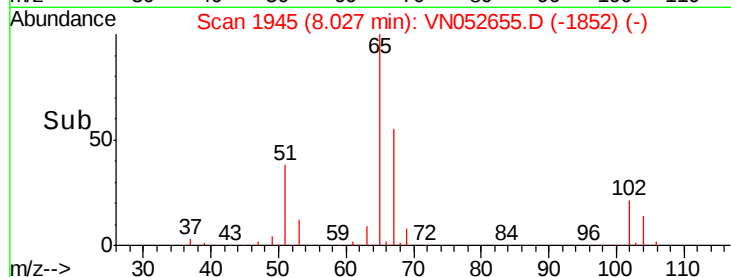
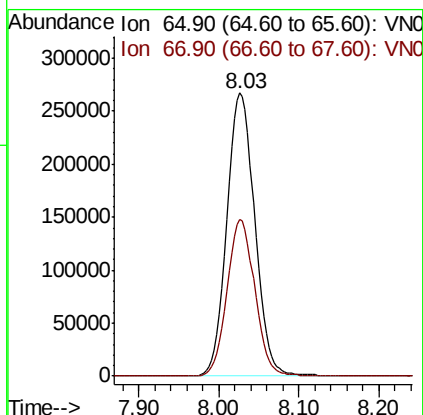
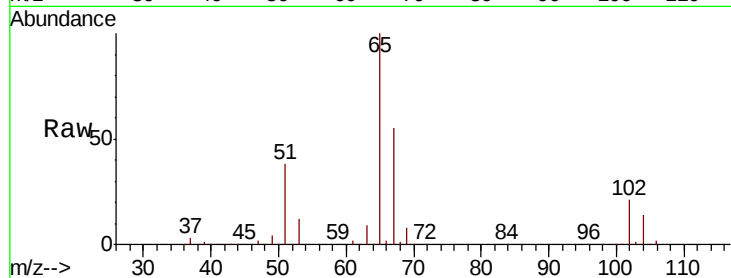




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052655.D
 Acq: 4 Dec 2018 15:34

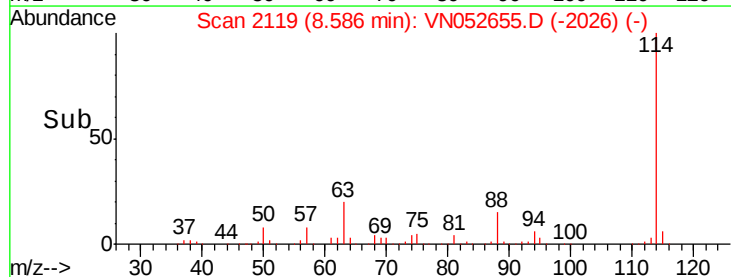
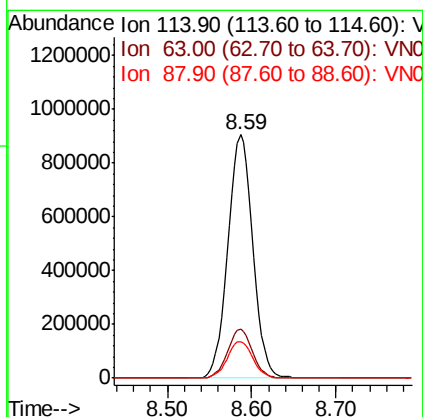
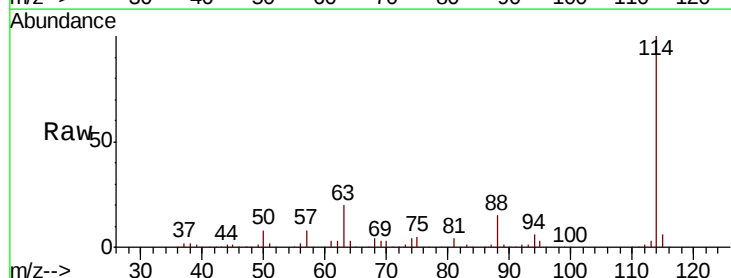
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#01

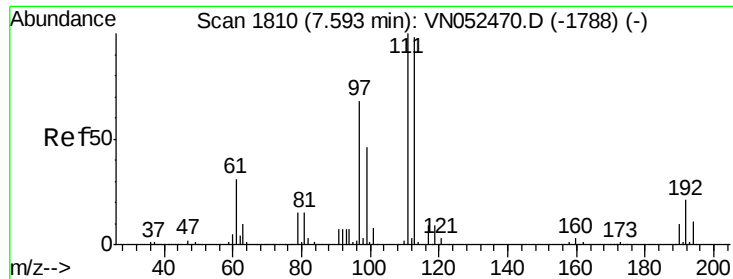
Tot Ion: 65 Resp: 637055
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052655.D
 Acq: 4 Dec 2018 15:34

Tgt Ion: 114 Resp: 1857876
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.8
 88 15.0 0.0 31.6

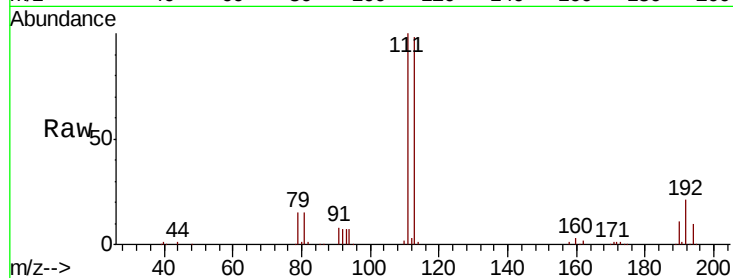




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052655.D
 Acq: 4 Dec 2018 15:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.0	123.0
192	22.0	17.0	25.6

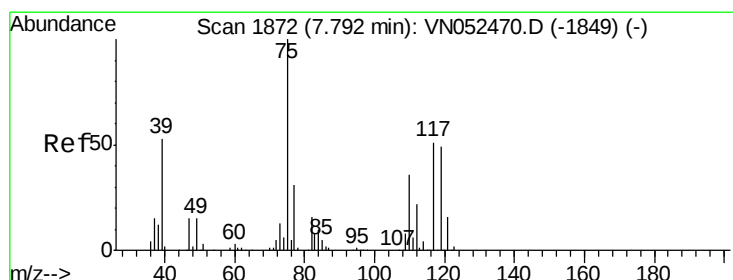
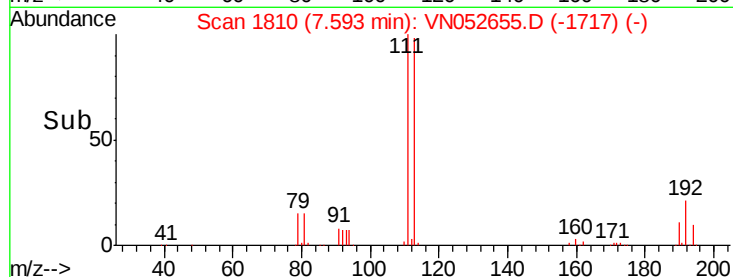
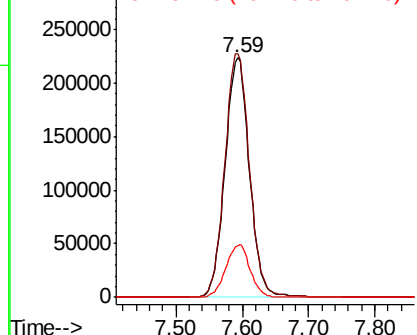


Abundance

Ion 112.80 (112.50 to 113.50): V

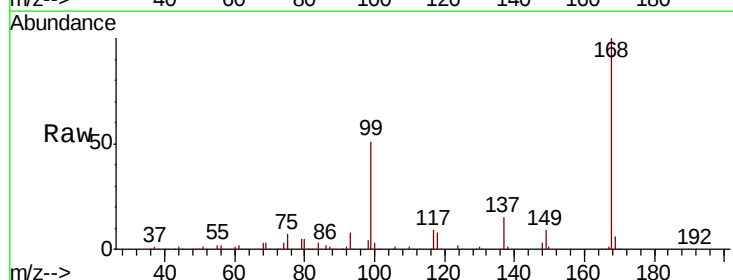
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.689 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052655.D
 Acq: 4 Dec 2018 15:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.5	52.6#
77	0.0	24.5	36.7#

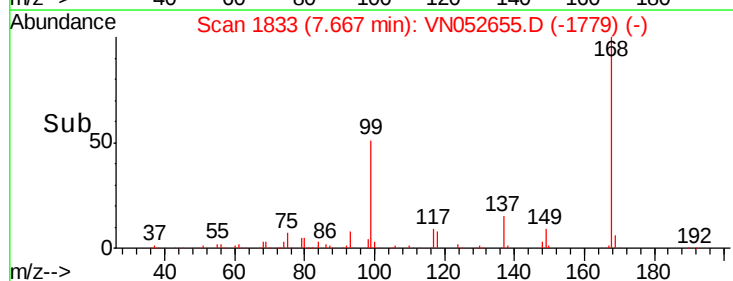
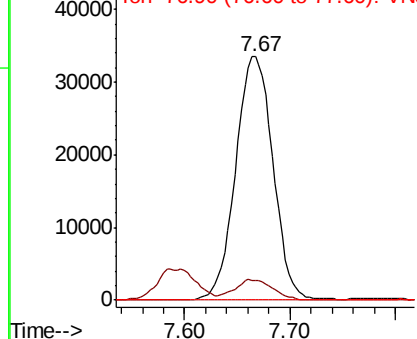


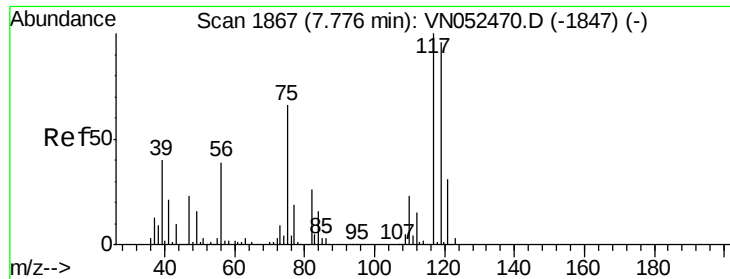
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.593 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#01

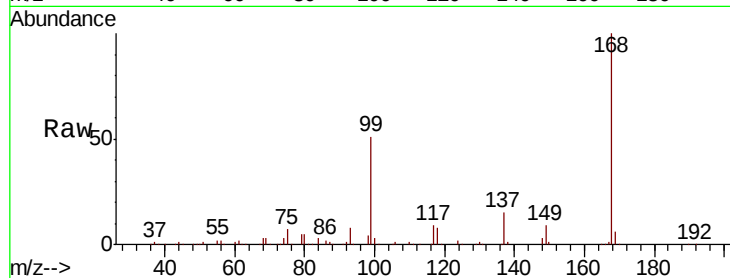
Tot Ion:117 Resp: 104711

Ion Ratio Lower Upper

117 100

119 5.2 76.8 115.2#

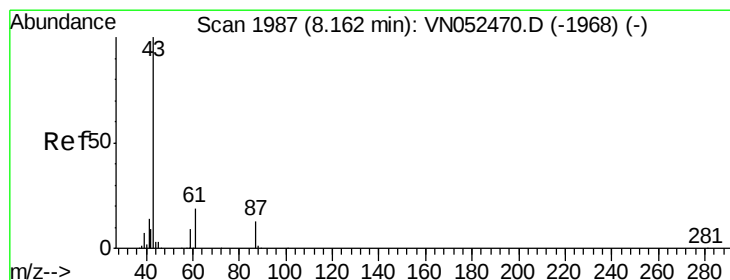
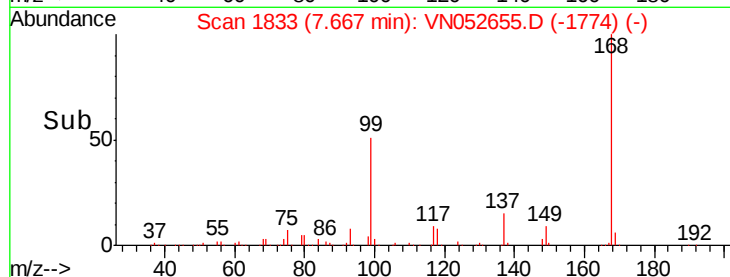
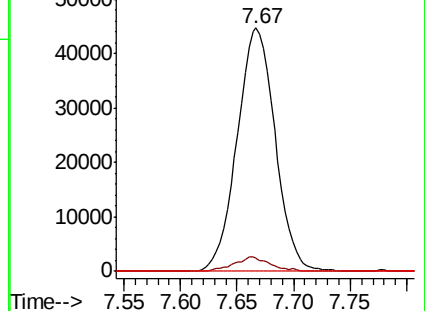
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.911 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

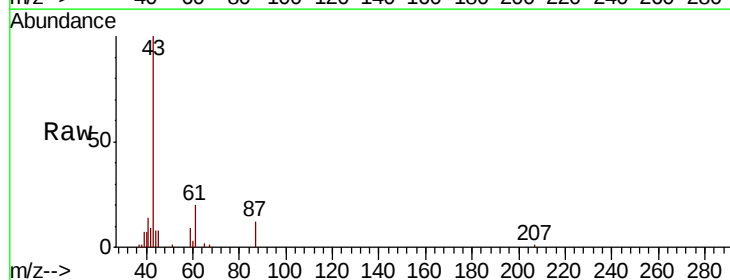
Tgt Ion: 43 Resp: 52740

Ion Ratio Lower Upper

43 100

61 17.8 24.1 36.1#

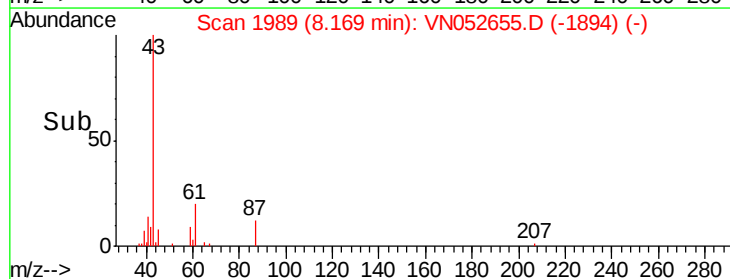
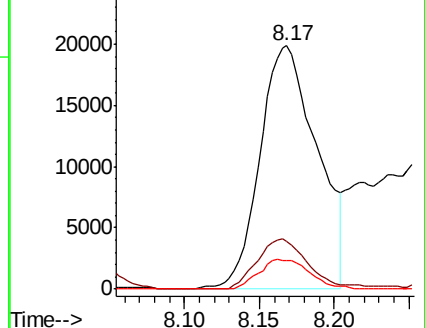
87 10.8 10.6 15.8

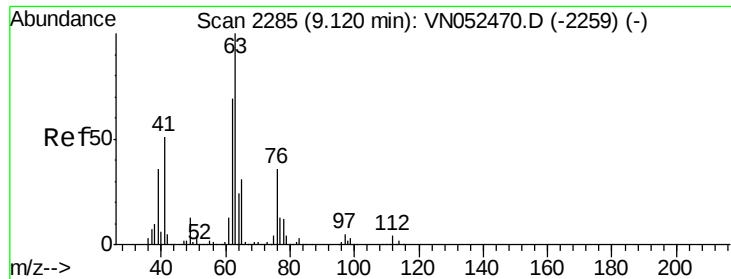


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.244 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

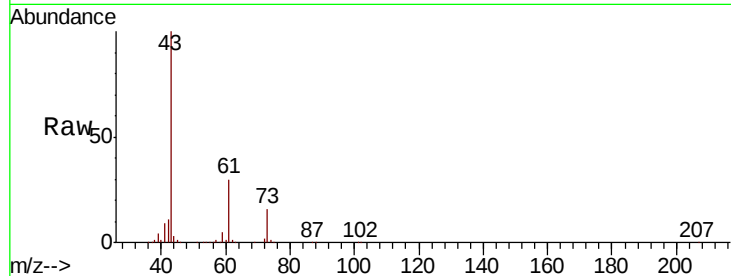
PB115293ZHE#01

Tot Ion: 63 Resp: 3385

Ion Ratio Lower Upper

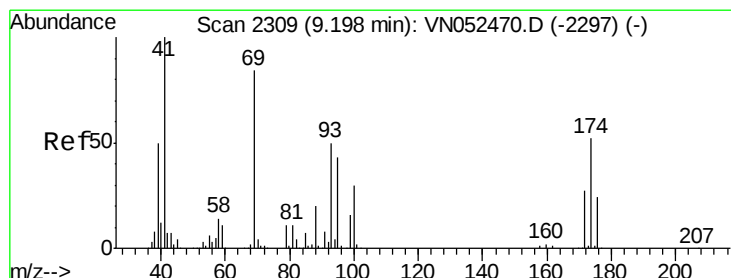
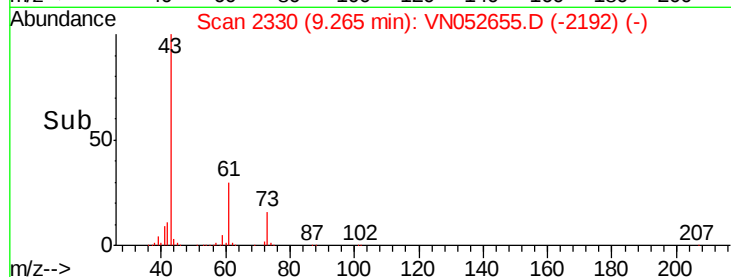
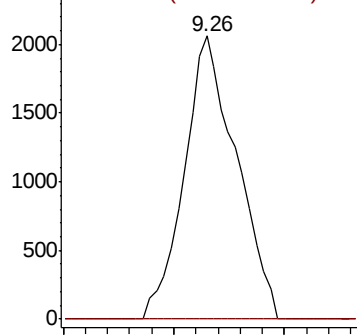
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.534 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

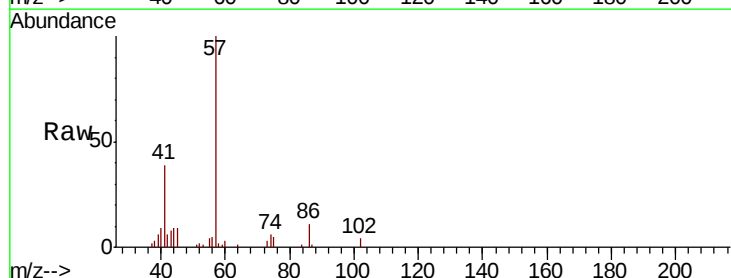
Tgt Ion: 41 Resp: 14489

Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

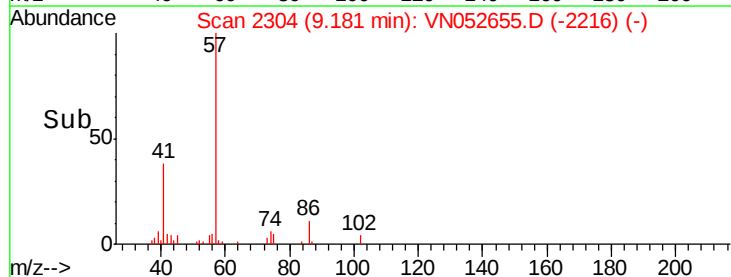
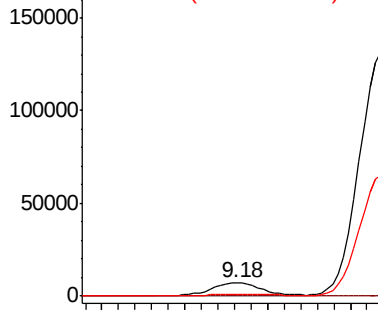
39 0.0 42.6 64.0#

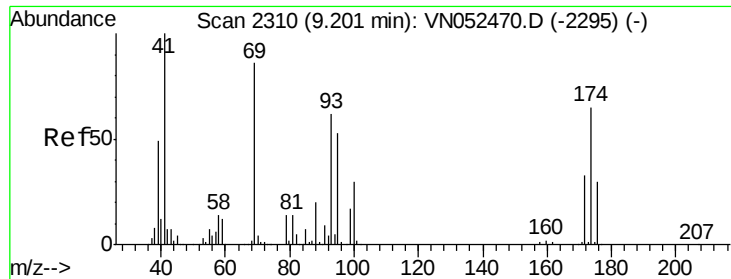


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 1.948 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.07 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#01

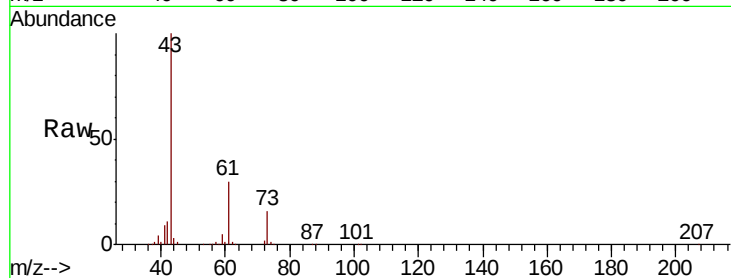
Tot Ion: 88 Resp: 191

Ion Ratio Lower Upper

88 100

43 1440197.9 26.4 39.6#

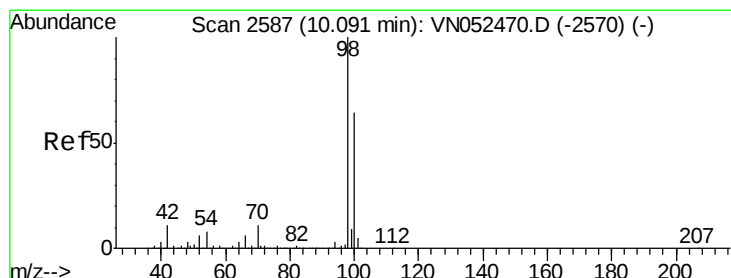
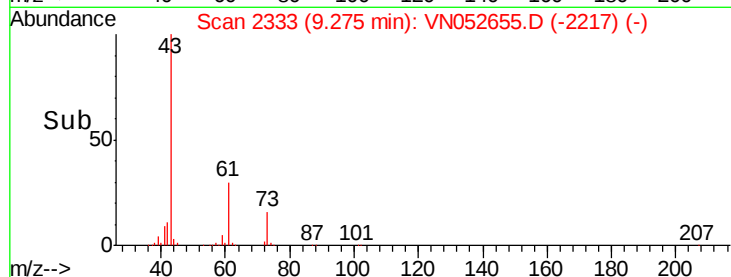
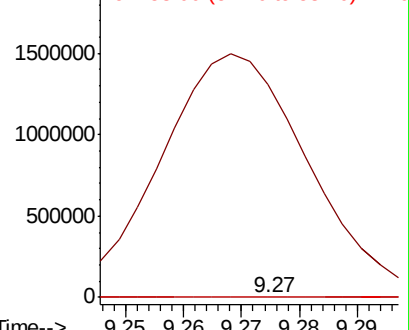
58 6261.8 55.4 83.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 1.948 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052655.D

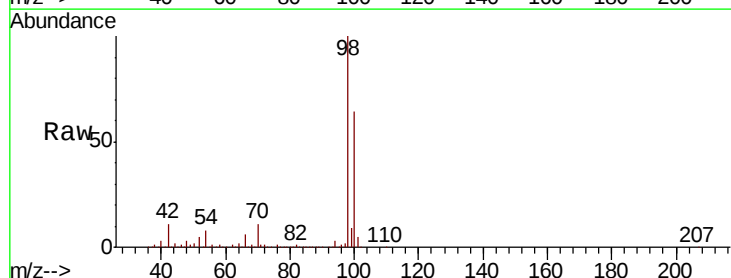
Acq: 4 Dec 2018 15:34

Tgt Ion: 98 Resp: 2266477

Ion Ratio Lower Upper

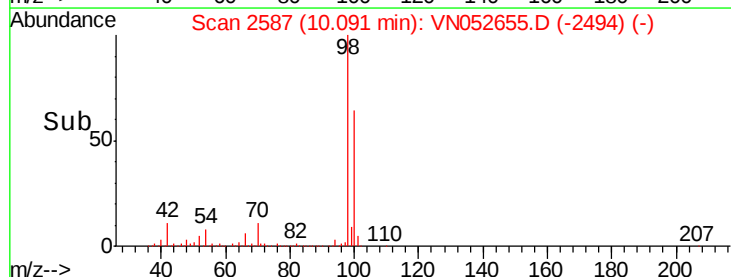
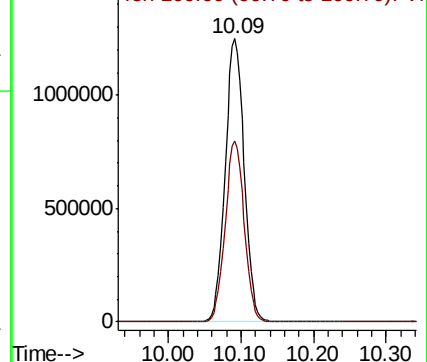
98 100

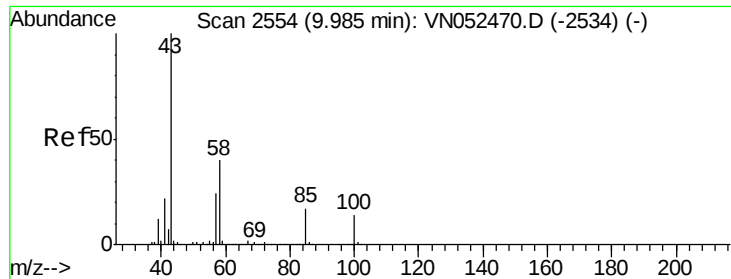
100 63.8 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.556 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

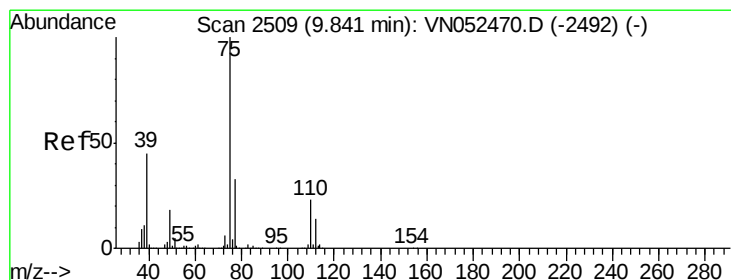
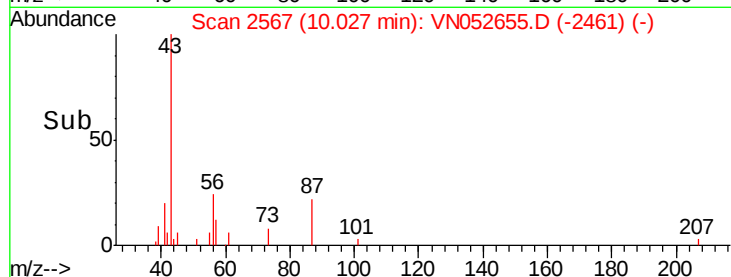
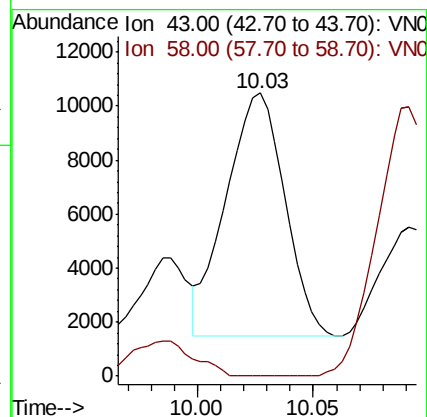
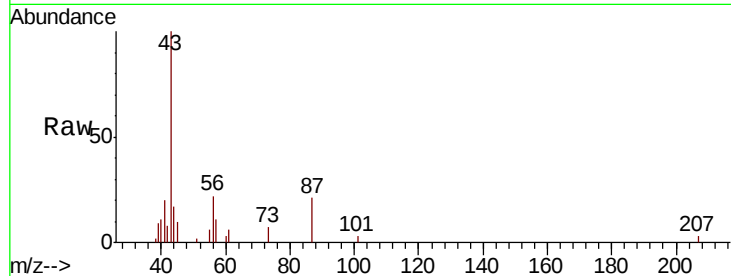
PB115293ZHE#01

Tot Ion: 43 Resp: 15824

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



#54

cis-1,3-Dichloropropene

Concen: 6.336 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

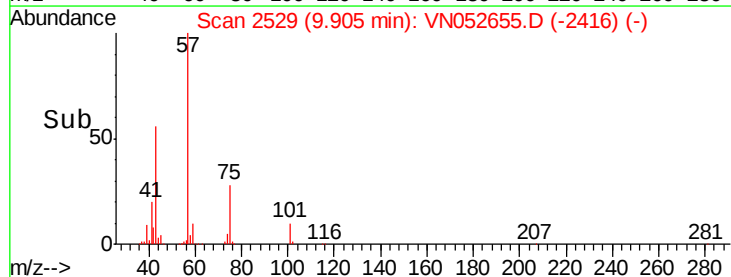
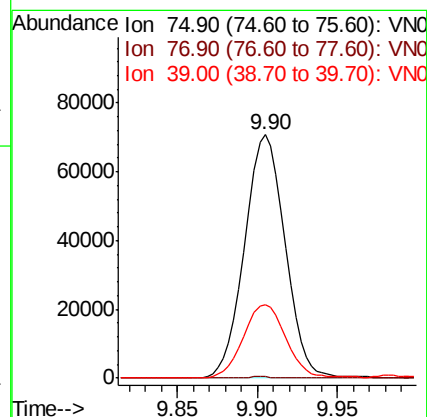
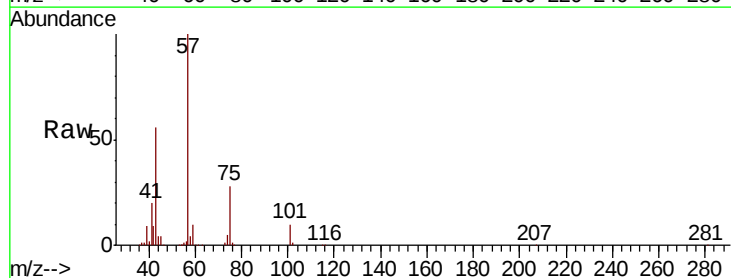
Tgt Ion: 75 Resp: 122219

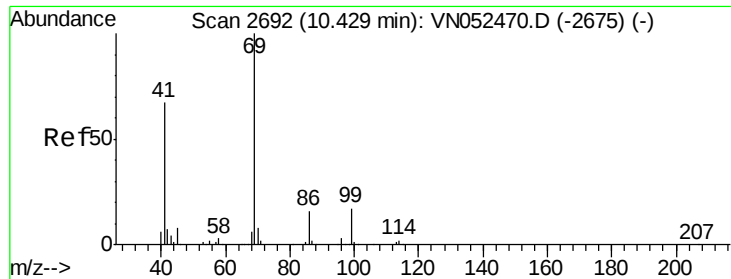
Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

39 30.4 36.0 54.0#





#56

Ethyl methacrylate

Concen: 2.788 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#01

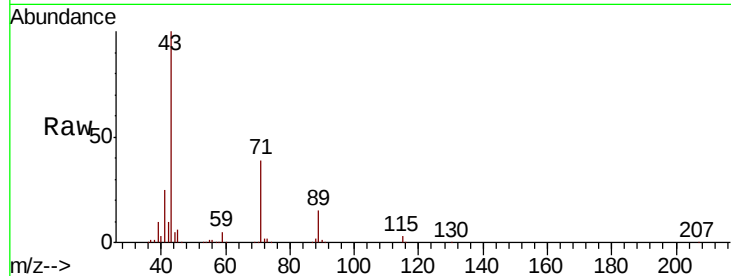
Tot Ion: 69 Resp: 1520

Ion Ratio Lower Upper

69 100

41 6445.4 52.6 79.0#

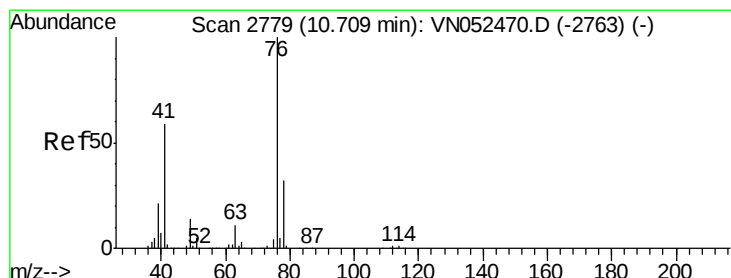
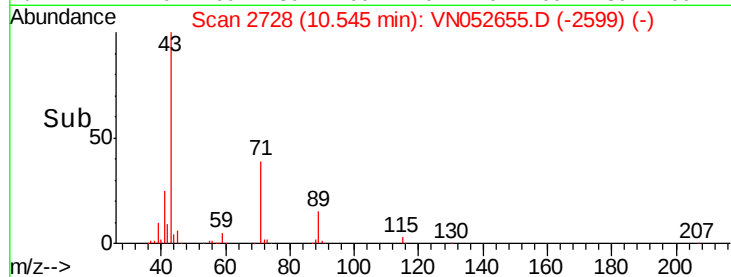
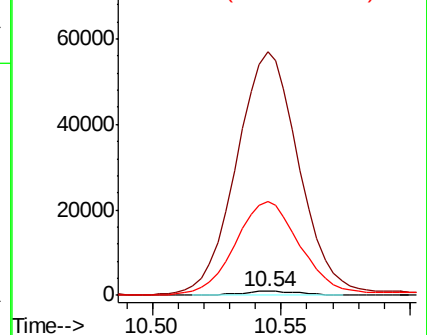
39 2579.9 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.349 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052655.D

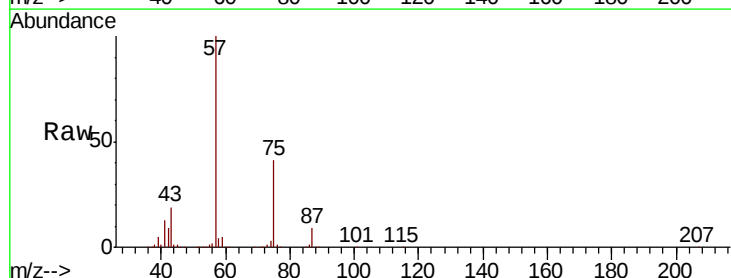
Acq: 4 Dec 2018 15:34

Tgt Ion: 76 Resp: 26032

Ion Ratio Lower Upper

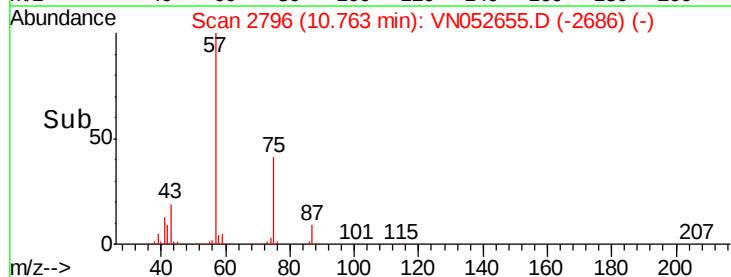
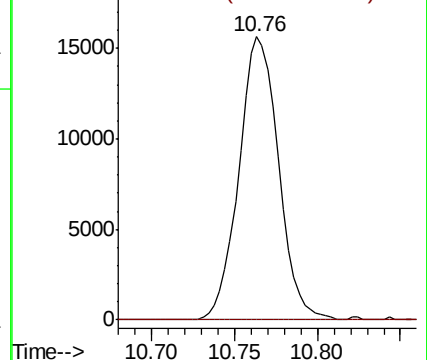
76 100

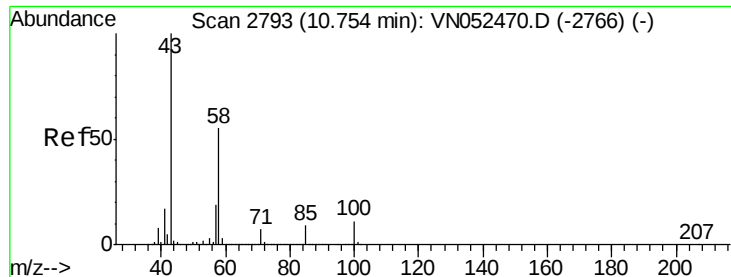
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

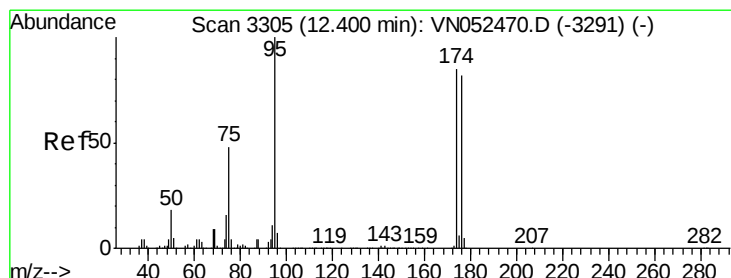
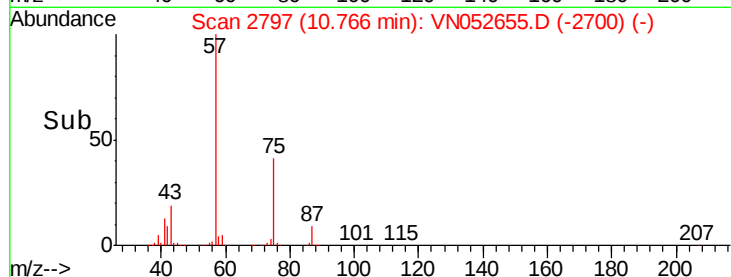
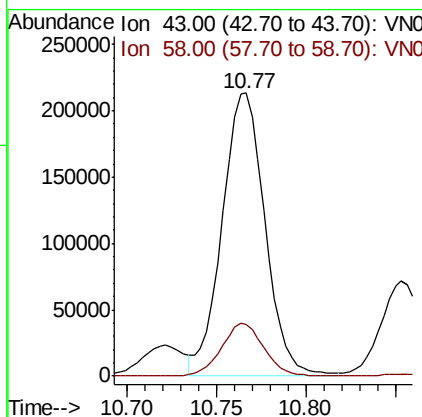
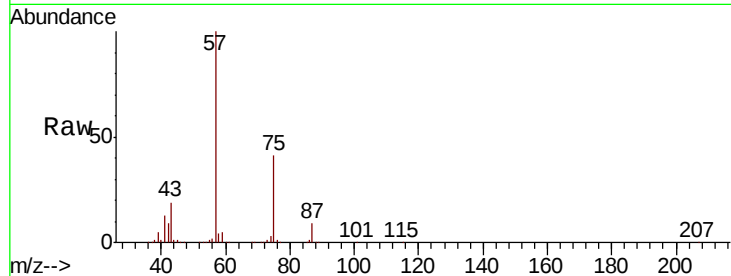




#59
2-Hexanone
Concen: 51.898 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

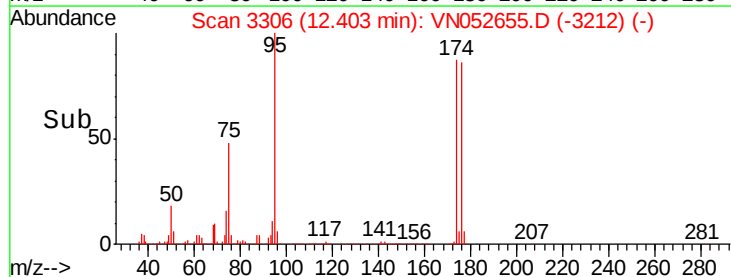
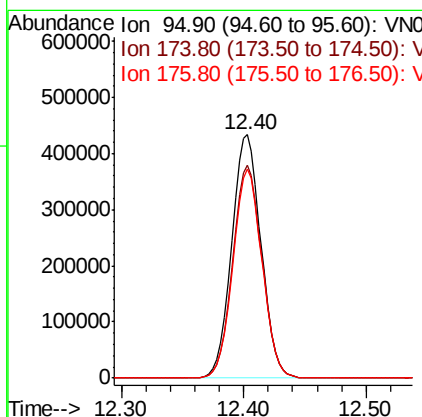
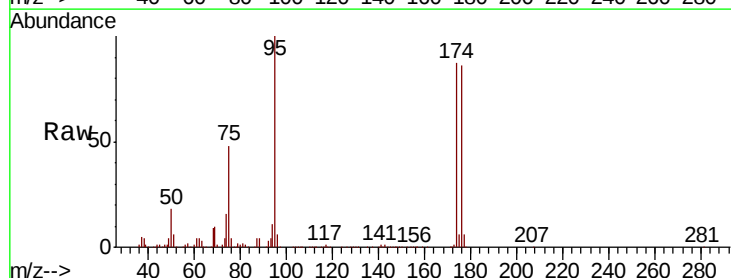
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#01

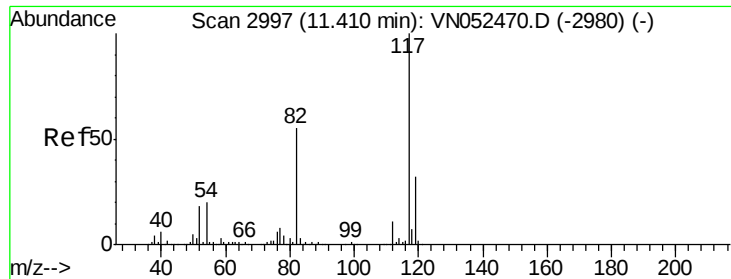
Tot Ion: 43 Resp: 354112
Ion Ratio Lower Upper
43 100
58 18.8 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

Tgt Ion: 95 Resp: 722426
Ion Ratio Lower Upper
95 100
174 87.2 0.0 173.0
176 85.3 0.0 166.2

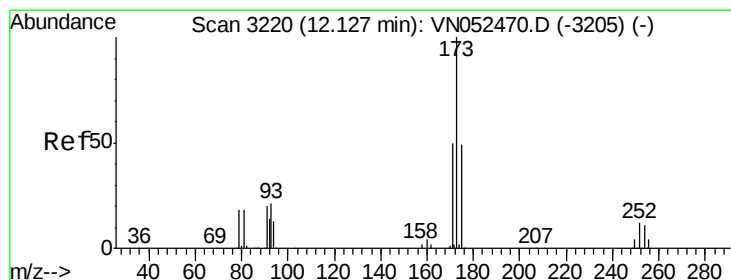
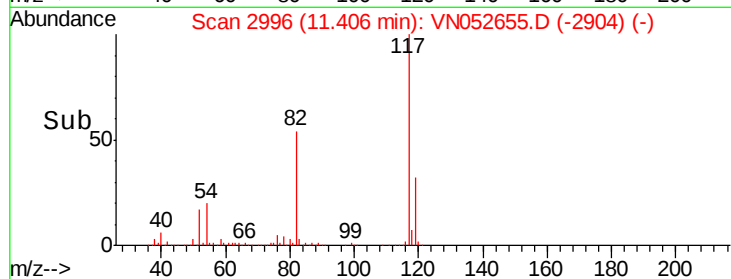
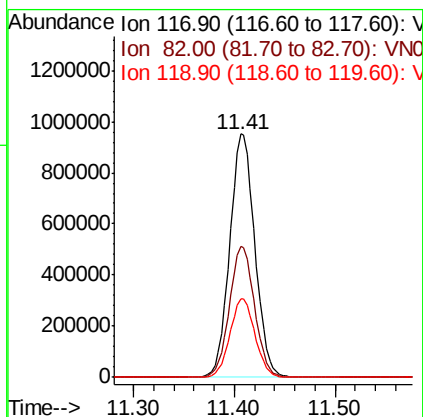
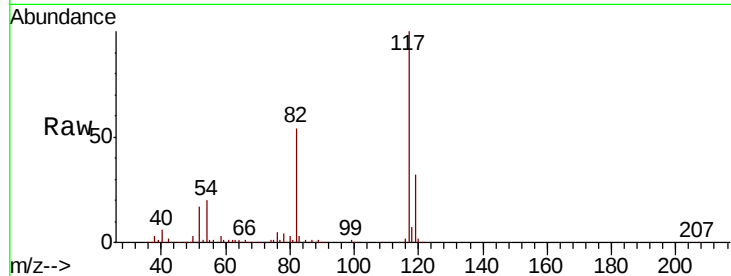




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

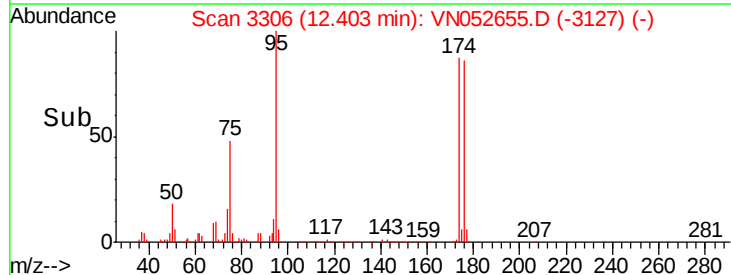
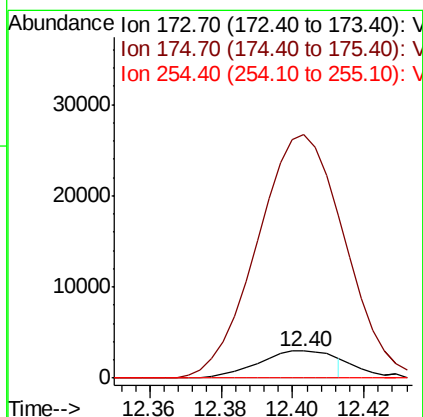
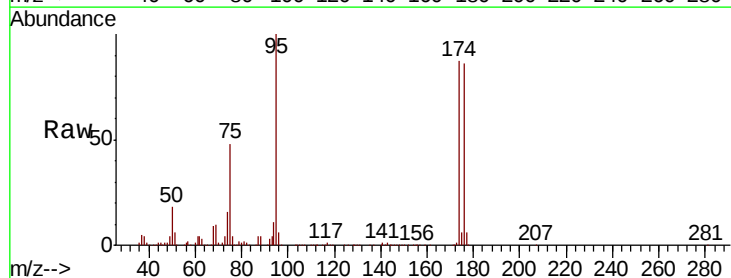
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#01

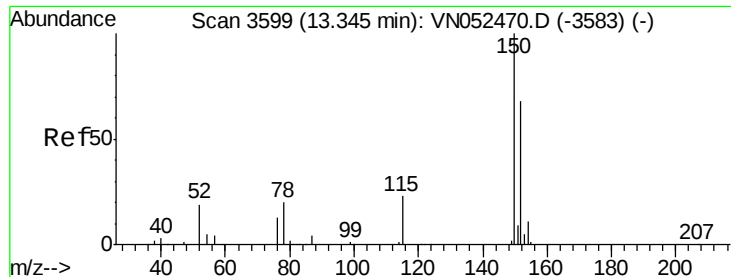
Tot Ion:117 Resp: 1648725
Ion Ratio Lower Upper
117 100
82 53.9 43.6 65.4
119 32.1 25.4 38.2



#71
Bromoform
Concen: 0.560 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052655.D
Acq: 4 Dec 2018 15:34

Tgt Ion:173 Resp: 4381
Ion Ratio Lower Upper
173 100
175 887.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#01

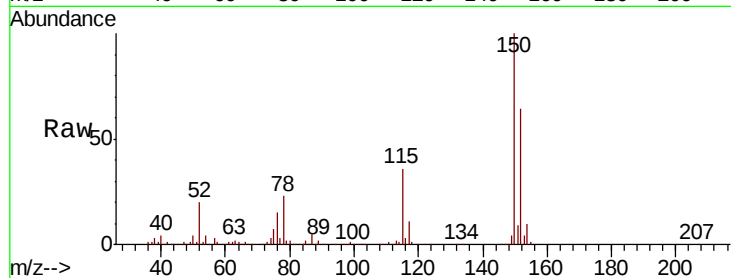
Tot Ion:152 Resp: 637407

Ion Ratio Lower Upper

152 100

115 56.1 28.4 85.2

150 156.5 0.0 346.0

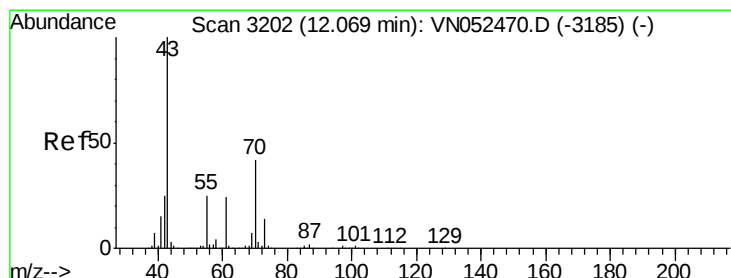
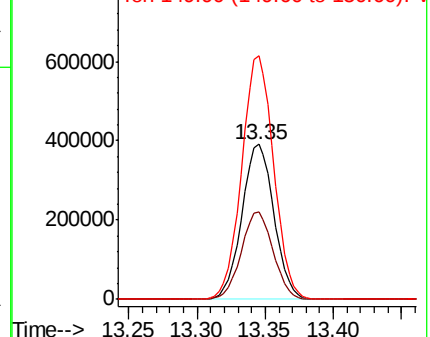
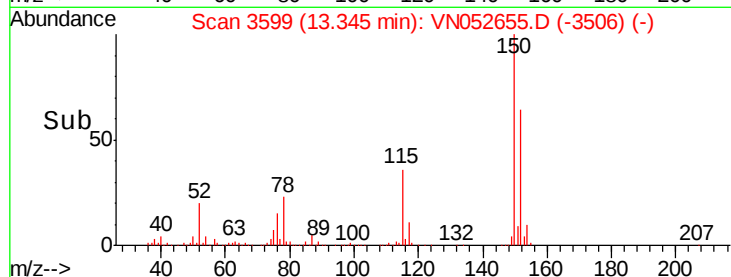


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.083 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Tgt Ion: 43 Resp: 38951

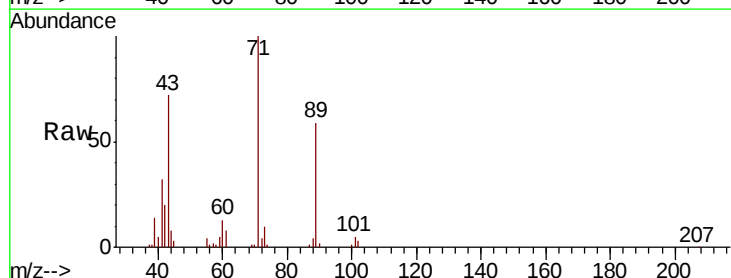
Ion Ratio Lower Upper

43 100

70 2.0 33.8 50.8#

55 4.9 20.0 30.0#

61 11.0 19.7 29.5#



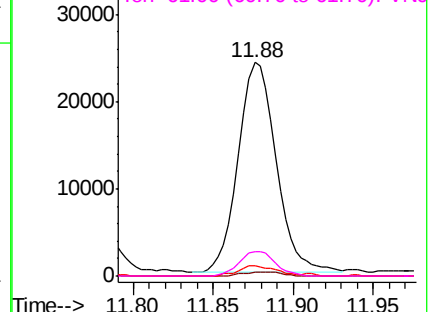
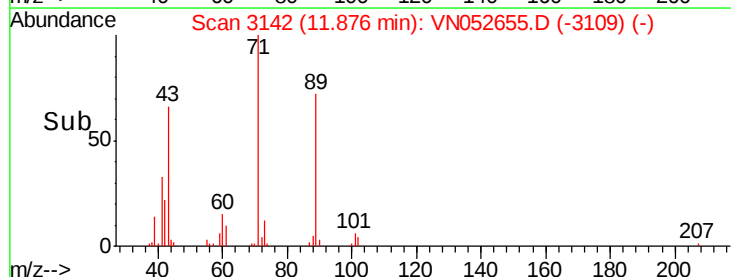
Abundance

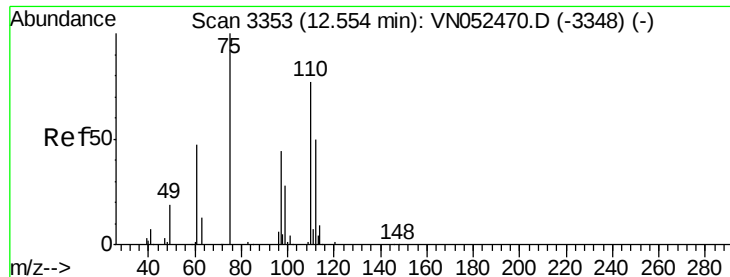
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 35.235 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

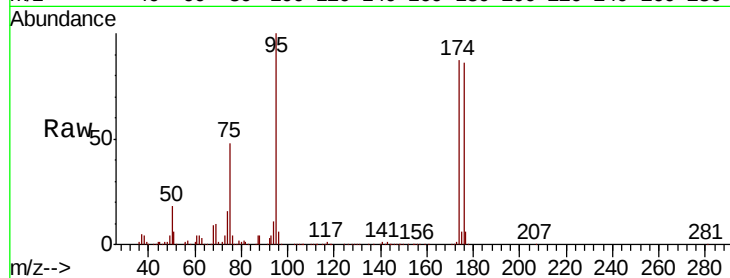
PB115293ZHE#01

Tot Ion: 75 Resp: 346334

Ion Ratio Lower Upper

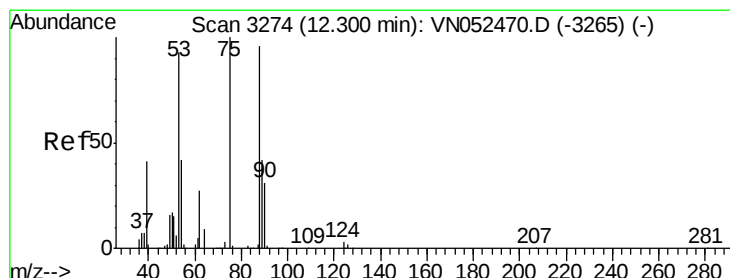
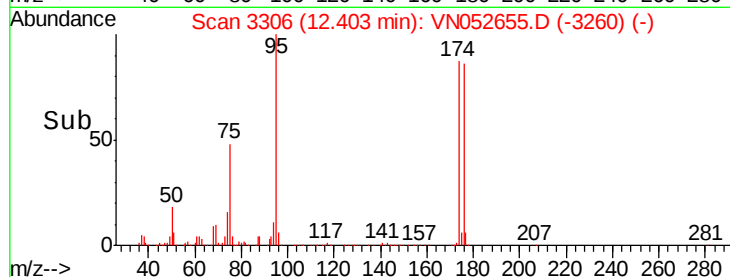
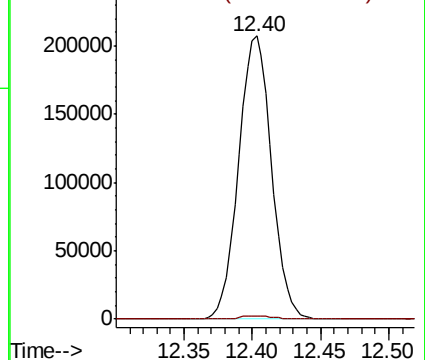
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 117.669 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

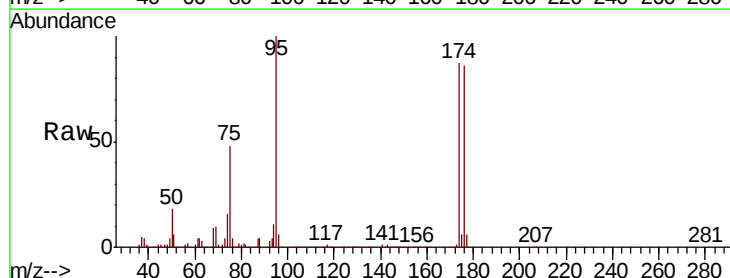
Tgt Ion: 75 Resp: 346334

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

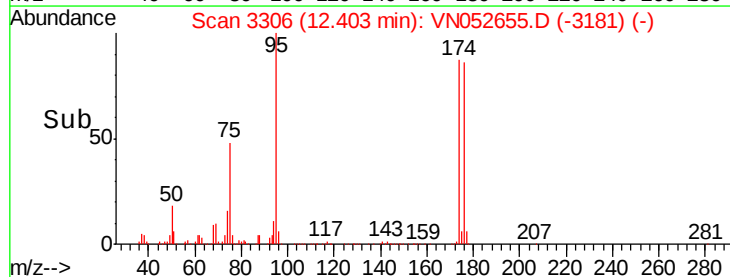
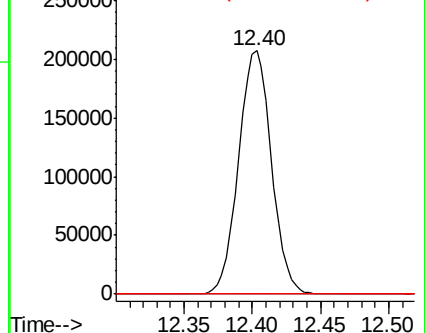
89 0.0 35.4 53.2#

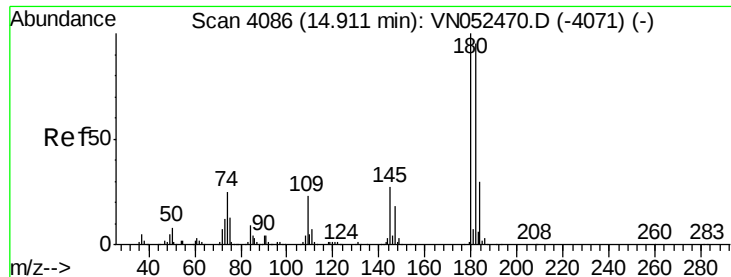


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.911 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#01

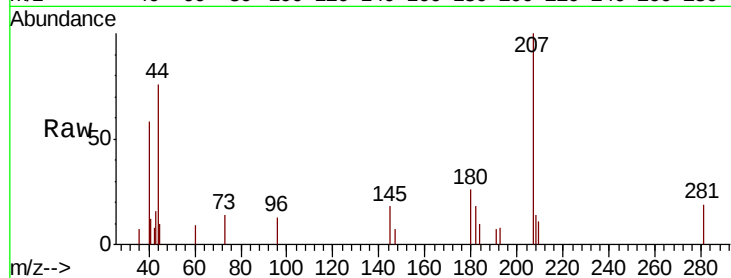
Tot Ion:180 Resp: 977

Ion Ratio Lower Upper

180 100

182 82.4 47.8 143.4

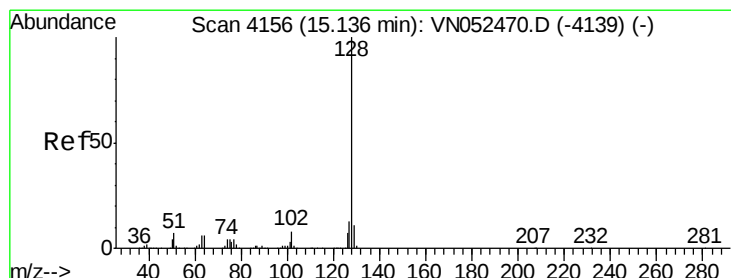
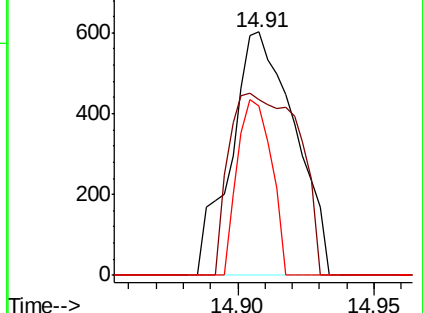
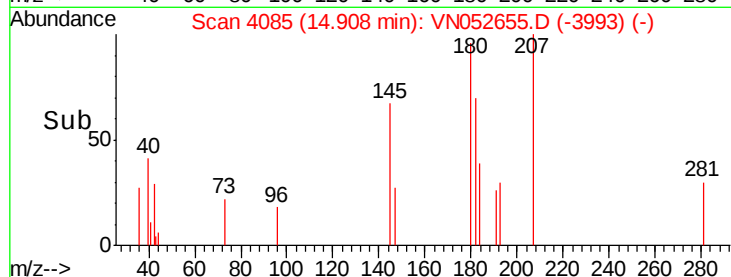
145 38.5 14.1 42.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 3.536 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052655.D

Acq: 4 Dec 2018 15:34

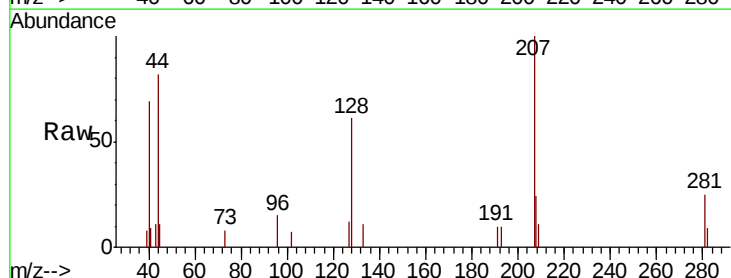
Tgt Ion:128 Resp: 2773

Ion Ratio Lower Upper

128 100

127 15.8 10.2 15.2#

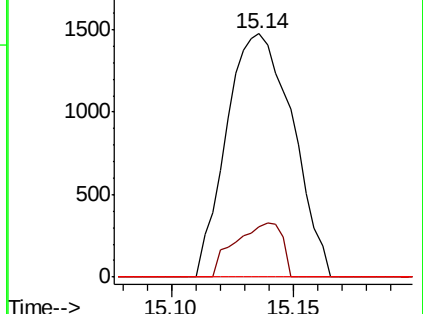
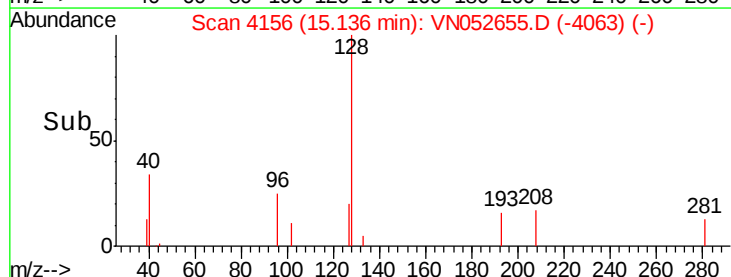
129 0.0 8.7 13.1#

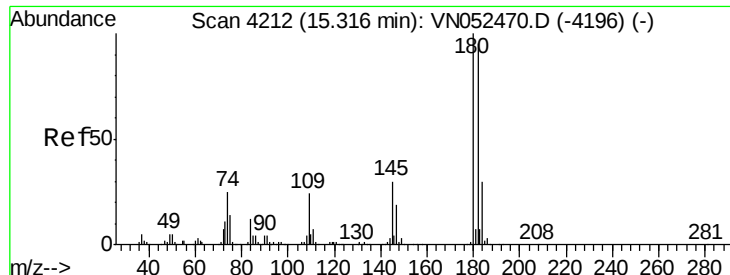


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

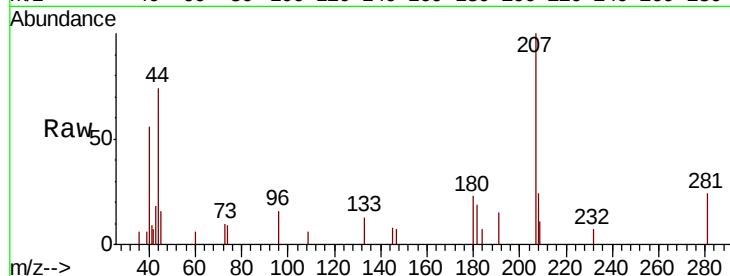




#96
 1,2,3-Trichlorobenzene
 Concen: 2.814 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052655.D
 Acq: 4 Dec 2018 15:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#01

Tot Ion:180 Resp: 957
 Ion Ratio Lower Upper
 180 100
 182 84.4 47.8 143.3
 145 33.6 15.2 45.5



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

